

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Lichtenhan et al.

Docket No.: 38559-0282005

Serial No.:

09/631,892

Group Art Unit: 1712

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March 26, 2001

Examiner: Robertson, Jeffrey

For:

PROCESS FOR THE FORMATION OF POLYHEDRAL

OLIGOMERIC SILSESQUIOXANES

AMENDMENT

Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Please amend this application as follows:

In the Specification

The specification is amended as follows:

Please replace the paragraph beginning at page 2, line 1, with the following rewritten paragraph:

Prior art has reported that bases (e.g., NaOH, KOH, etc.) could be used to both catalyze the polymerization of POSS into lightly networked resins or to convert selected polysilsesquioxane resins into homoleptic polyhedral oligomeric silsesquioxane structures.

Marsmann et al have more recently shown that a variety of bases can be used to redistribute

5 smaller homoleptic POSS cages into larger sized homoleptic cages. (Marsmann, H.C. and

6 Rikowski, E., Polyhedron, 1997, 16, 3357-3361). While there is precedent in the literature for

7 treatment of silsesquioxanes and POSS systems with base, the previous art does not afford the

8 selective manipulation of silicon-oxygen frameworks and the subsequent controlled production

of POSS fragments, homoleptic POSS nanostructures, heteroleptic POSS nanostructures and

10 functionalized heteroleptic POSS nanostructures. Furthermore, the prior art does not provide

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